As a below named in	ventor, I hereby declare that:		
My residence, post o	ffice address and citizenship ar	e as stated below next to my name	,
and joint inventor (if	ginal, first and sole inventor (if plural names are listed below) ght on the invention entitled:	only one name is listed below) or of the subject matter which is claim	an original, first med and for
the specification of as Appln. Serial No (if applicable). I he specification, includation acknowledge the di	INFORMATION RETRIES which (check one) [ ] is attact on 09/654,365 ereby state that I have reviewed ing the claims, as amended by a	thed hereto. [x] was filed on and was amended on and understand the contents of the any amendment referred to above.	9/1/00 above identified
application(s) for parapplication for paten which priority is claim	tent or inventor's certificate list t or inventor's certificate havin med:	35, United States Code, Section 11 ted below and have also identified g a filing date before that of the ap	any foreign
Prior Foreign Application	on(s)		Priority Claimed [ ] Yes [ ] No
(Number)	(Country)	(Day/Month/Year filed)	_ (_) .00 (_).00
I hereby claim the beapplications(s) listed	enefit under Title 35, United State below.	ates Code, 119(e) of any United St	ates provisional
	60/152,255	9/3/99	
	(Application Number)	(Filing Date)	
application(s) listed not disclosed in the page 35, United States Co in Title 37, Code of	below and insofar as the subject prior United States application in the Section 112, I acknowledge Federal Regulations, Section 1.	ates Code, Section 120 of any United matter of each of the claims of the in the manner provided by the first the duty to disclose material information of the filling date for this application:	nis application is paragraph of Title mation as defined ing date of the
(Appln. Serial N	(Filing Date)	(Statuspatented, pending	g, abandoned)

Attorney D	Docket No
I hereby appoint the following attorney(s) and/or agent(s business in the Patent and Trademark Office connected t	s) to prosecute this application and to transact all therewith:
Leonard C. Suchyta, Reg. No. 25,707, as	nd James Weixel, Reg. No. 44,399
Address all telephone calls to James K. Weixel	at telephone no(781) 466-2220
Address all correspondence to  Leonard C. Such Verizon Services 600 Hidden Ridg Irving, TX 75038	Group e, HQE03G13
I hereby declare that all statements made herein of my o made on information and belief are believed to be true; the knowledge that willful false statements and the like or both, under Section 1001 of Title 18 of the United Statement in the walldity of the application or any patents.	and further that these statements were made with so made are punishable by fine or imprisonment, ates Code and that such willful false statements tent issued thereon.
FULL NAME OF SOLE OR FIRST INVENTOR Huaich	11/10/2000
Inventor's signature	Date
Residence Hershey, Pennsylvania	Citizenship P.R. China
Post Office Address 212 Jacob's Creek Dr., He	rshey, PA-17033
FULL NAME OF SECOND INVENTOR Richard	rd Schwartz
Inventor's signature	Date
Residence Sudbury, Massachusetts	Citizenship USA
Post Office Address 200 Peakham Road, Sudbu	ary, MA 01776
	A C Walls
FULL NAME OF THIRD INVENTOR Freder	rick G. Walls
Inventor's signature	Date
Residence Lake Forest, California	Citizenship USA
Post Office Address 22700 Lake Forest Dr., Ap	pt. 337, Lake Forest, CA 92630

Attorney I	Docket No. 99-426	
FULL NAME OF FOURTH INVENTOR Sreeniv	asa P. Sista	
Inventor's signature	Date	
Residence Chestnut Hill, Massachusetts	Citizenship India	
Post Office Address 64 Byron Road, Apt. 14, Ch	nestnut Hill, MA 02467	

As a below named inventor, I he	reby declare that:		
My residence, post office address	ss and citizenship are as s	tated below next to my name.	,
I believe I am the original, first a and joint inventor (if plural nam which a patent is sought on the i	es are listed below) of the	one name is listed below) or e subject matter which is claim	an original, first med and for
	MATION RETRIEVAI ck one) [ ] is attached h 365 hat I have reviewed and u	ereto. [x] was filed on and was amended on nderstand the contents of the	9/1/00
I acknowledge the duty to disclo in accordance with Title 37, Cod	se information which is n le of Federal Regulations	naterial to the patentability of Section 1.56(a).	f this application
I hereby claim foreign priority be application(s) for patent or inver- application for patent or inventor which priority is claimed:	ntor's certificate listed bel	low and have also identified a	any foreign
Prior Foreign Application(s)			Priority Claimed
(Number)	(Country)	(Day/Month/Year filed)	. [_] 105 [_] 110
I hereby claim the benefit under applications(s) listed below.	Title 35, United States Co	ode, 119(e) of any United Sta	ates provisional
60/152,255 (Application	Number)	9/3/99 (Filing Date)	
I hereby claim the benefit under application(s) listed below and in not disclosed in the prior United 35, United States Code, Section in Title 37, Code of Federal Reg prior application and the national	nsofar as the subject matter States application in the states application in the state of the decision of the state of the	er of each of the claims of the manner provided by the first uty to disclose material infor- ich occurred between the fili	is application is paragraph of Title mation as defined

Attorney Docl	ket No
I hereby appoint the following attorney(s) and/or agent(s) to business in the Patent and Trademark Office connected there	
Leonard C. Suchyta, Reg. No. 25,707, and J	James Weixel, Reg. No. 44,399
Address all telephone calls to James K. Weixel	at telephone no. (781) 466-2220
Address all correspondence to  Leonard C. Suchyta  Verizon Services Gro 600 Hidden Ridge, H Irving, TX 75038	•
I hereby declare that all statements made herein of my own hade on information and belief are believed to be true; and the knowledge that willful false statements and the like so more both, under Section 1001 of Title 18 of the United States may jeopardize the validity of the application or any patent in FULL NAME OF SOLE OR FIRST INVENTOR Huaichuan	further that these statements were made with nade are punishable by fine or imprisonment, Code and that such willful false statements issued thereon.
Inventor's signature	Date
Residence Hershey, Pennsylvania	Citizenship P.R. China
Post Office Address 212 Jacob's Creek Dr., Hershey	-
FULL NAME OF SECOND INVENTOR Richard Sci	hwartz
Inventor's signature Richard M. Schwart	Date <u>Dec 6, 2000</u>
Residence Rockville, MD	Citizenship USA
Post Office Address 1691 Yale Place, Rockville, MD 208	350
FULL NAME OF THIRD INVENTOR Frederick C	G. Walls
Inventor's signature	Date
Residence Lake Forest, California	Citizenship USA
Post Office Address 22700 Lake Forest Dr., Apt. 337	7, Lake Forest, CA 92630

## PATENT Docket No. 99-426CON1

A	Attorney Docket No.	99-426
FULL NAME OF FOURTH INVENTOR	Sreenivasa P. Sista	
Inventor's signature	Date	
Residence Chestnut Hill, Massachuset	tts Citizenship	India
Post Office Address 14 Byron Road. A	opt. 4. Chestnut Hill, MA 024	167

As a below named inventor, I here	eby declare that:		
My residence, post office address	and citizenship are as sta	ated below next to my name,	
I believe I am the original, first ar and joint inventor (if plural name which a patent is sought on the in	s are listed below) of the	one name is listed below) or a subject matter which is clair	an original, first ned and for
	MATION RETRIEVAL k one) [ ] is attached he 65 at I have reviewed and un	reto. [x] was filed on and was amended on derstand the contents of the	9/1/00
I acknowledge the duty to disclosin accordance with Title 37, Code	se information which is me of Federal Regulations,	naterial to the patentability of Section 1.56(a).	f this application
I hereby claim foreign priority be application(s) for patent or inven application for patent or inventor which priority is claimed:	tor's certificate listed bel	ow and have also identified	any foreign
Prior Foreign Application(s)			Priority Claimed [ ] Yes [ ] No
(Number)	(Country)	(Day/Month/Year filed)	_
I hereby claim the benefit under applications(s) listed below.	Title 35, United States C	ode, 119(e) of any United St	ates provisional
60/152,255		9/3/99	
(Application	Number)	(Filing Date)	
I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date for this application:			
(Appln. Serial No.)			

Attorney Doc	ket No. <u>99-426</u>
I hereby appoint the following attorney(s) and/or agent(s) to business in the Patent and Trademark Office connected ther	
Leonard C. Suchyta, Reg. No. 25,707, and	James Weixel, Reg. No. 44,399
Address all telephone calls to James K. Weixel	at telephone no. (781) 466-2220
Address all correspondence to  Leonard C. Suchyta  Verizon Services Gr  600 Hidden Ridge, H  Irving, TX 75038	<u>-</u>
I hereby declare that all statements made herein of my own made on information and belief are believed to be true; and the knowledge that willful false statements and the like so r or both, under Section 1001 of Title 18 of the United States may jeopardize the validity of the application or any patent	further that these statements were made with made are punishable by fine or imprisonment, Code and that such willful false statements
FULL NAME OF SOLE OR FIRST INVENTOR Huaichuar	Hubert Jin
Inventor's signature	Date
Residence Hershey, Pennsylvania	Citizenship P.R. China
Post Office Address 212 Jacob's Creek Dr., Hershe	у, РА 17033
FULL NAME OF SECOND INVENTOR Richard S	chwartz
Inventor's signature	Date
Residence Sudbury, Massachusetts	Citizenship USA
Post Office Address 200 Peakham Road, Sudbury,	MA 01776
FULL NAME OF THIRD INVENTOR Frederick	G. Walls
Inventor's signature Frederick F. Walls	Date 11/6/00
Residence Lake Forest, California	Citizenship USA
Post Office Address 22700 Lake Forest Dr., Apt. 3	37. Lake F rest, CA 92630

#### EXPRESS MAIL NO. ER054264310US

PATENT Docket No. 99-426CON1

Attorney l	Docket No. 99-426
FULL NAME OF FOURTH INVENTOR Sreening	vasa P. Sista
Inventor's signature	Date
Residence Chestnut Hill, Massachusetts	Citizenship India
Post Office Address 64 Byron Road, Apt. 14, Cl	hestnut Hill, MA 02467

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:  Prior Foreign Application(s)  (Country)  (Day/Month/Year filed)  I hereby claim the benefit under Title 35, United States Code, 119(e) of any United States provisional applications(s) listed below.  (Application Number)  (Filing Date)  I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the	As a below named	inventor, I here	by declare that:		
METHOD AND APPARATUS FOR SCORE NORMALIZATION FOR INFORMATION RETRIEVAL APPLICATIONS  the specification of which (check one) [ ] is attached hereto. [ x ] was filed on 9/1/00 as Appln. Serial No. 09/654,365  the specification, including the claims, as amended by any amendment referred to above.  (acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).  (I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:  Prior Foreign Application(s)  (Number)  (Country)  (Country)  (Day/Month/Year filed)  I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States applications(s) listed below and insofar as the subject matter of each of the claims of this application is application(s) listed below and insofar as the subject matter of each of the claims of this application in the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date for this application:	My residence, post	office address	and citizenship are as	stated below next to my nam	e,
the specification of which (check one) [ ] is attached hereto. [ x ] was filed on 9/1/00 as Appln. Serial No. 09/654,365 and was amended on (if applicable). I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.  I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).  I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application (s) for patent or inventor's certificate listed below and have also identified any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:  Prior Foreign Application(s)  (Number)  (Country)  (Day/Month/Year filed)  I hereby claim the benefit under Title 35, United States Code, 119(e) of any United States provisional applications(s) listed below.  60/152,255  (Application Number)  (Filing Date)  I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date for this application:	and joint inventor (	if plural names	are listed below) of the		
I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:    Prior Foreign Application(s)	the specification of as Appln. Serial Notes (if applicable). Is specification, inclu	INFORM of which (check No. 09/654,36 hereby state than ding the claims	ATION RETRIEVA one) [ ] is attached of t I have reviewed and t, as amended by any a	AL APPLICATIONS hereto. [x] was filed on and was amended on understand the contents of the mendment referred to above	9/1/00 ne above identified
application(s) for patent or inventor's certificate listed below and have also identified any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:    Prior Foreign Application(s)					er and approximate
(Number)  (Country)  (Day/Month/Year filed)  I hereby claim the benefit under Title 35, United States Code, 119(e) of any United States provisional applications(s) listed below.  (Application Number)  I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date for this application:	application(s) for papplication for pate which priority is cl	patent or inventor; ent or inventor; laimed:	or's certificate listed b	elow and have also identifie	d any foreign application on
I hereby claim the benefit under Title 35, United States Code, 119(e) of any United States provisional applications(s) listed below.  60/152,255 9/3/99 (Filing Date)  I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date for this application:		ation(s)			
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(Appln. Serial No.) (Filing Date) (Statuspatented, pending, abandoned)	application(s) liste not disclosed in th 35, United States ( in Title 37, Code of	ed below and instee prior United States  Code, Section 1 of Federal Regu	sofar as the subject ma States application in the 12, I acknowledge the lations, Section 1.56 v	atter of each of the claims of ne manner provided by the fine duty to disclose material info which occurred between the f	this application is est paragraph of Title formation as defined filing date of the
	(Appln. Serial	No.)	(Filing Date)	(Statuspatented, pendi	ng, abandoned)

Attorney Doc	ket No. 99-426
I hereby appoint the following attorney(s) and/or agent(s) to business in the Patent and Trademark Office connected then	o prosecute this application and to transact all rewith:
Leonard C. Suchyta, Reg. No. 25,707, and	James Weixel, Reg. No. 44,399
Address all telephone calls to James K. Weixel	at telephone no(781) 466-2220
Address all correspondence to  Leonard C. Suchyta  Verizon Services Gr 600 Hidden Ridge, I Irving, TX 75038	oup
I hereby declare that all statements made herein of my own made on information and belief are believed to be true; and the knowledge that willful false statements and the like so or both, under Section 1001 of Title 18 of the United States may jeopardize the validity of the application or any patent	I further that these statements were made with made are punishable by fine or imprisonment, s Code and that such willful false statements
FULL NAME OF SOLE OR FIRST INVENTOR Huaichua	n Hubert Jin
Inventor's signature	Date
Residence Hershey, Pennsylvania	Citizenship P.R. China
Post Office Address 212 Jacob's Creek Dr., Hersho	еу, РА 17033
FULL NAME OF SECOND INVENTOR Richard S	chwartz
Inventor's signature	Date
Residence Sudbury, Massachusetts	Citizenship USA
Post Office Address 200 Peakham Road, Sudbury,	MA 01776
FULL NAME OF THIRD INVENTOR Frederick	G. Walls
Inventor's signature	Date
Residence Lake Forest, California	Citizenship USA
Post Office Address 22700 Lake Forest Dr., Apt. 3	37, Lake Forest, CA 92630

Attor	mey Docket No. 99-426	
FULL NAME OF FOURTH INVENTOR Sr	eenivasa P. Sista	_
Inventor's signature	Date 11/30/2000	_
Residence Chestnut Hill, Massachusetts	Citizenship India	_
Post Office Address 14 Byron Road, Apt. 4	. Chestnut Hill, MA 02467	



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

MARCH 21, 2001

PTAS

\*101579804A\*

VERIZON SERVICES GROUP LEONARD CHARLES SUCHYTA 600 HIDDEN RIDGE, HQE03G13 IRVING, TX 75038

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/21/2000 REEL/FRAME: 011409/0506

NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

JIN, HUAICHUAN HUBERT DOC DATE: 11/10/2000

ASSIGNOR:

SCHWARTZ, RICHARD DOC DATE: 12/06/2000

ASSIGNOR:

WALLS, FREDERICK G. DOC DATE: 11/06/2000

ASSIGNOR:

SISTA, SREENIVASA P DOC DATE: 11/30/2000

ASSIGNEE:

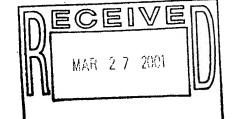
BBNT SOLUTIONS, LLC 10 MOULTON STREET CAMBRIDGE, MASSACHUSETTS 02138

SERIAL NUMBER: 09654365

PATENT NUMBER:

FILING DATE: 09/01/2000

ISSUE DATE:





011409/0506 PAGE 2

MARCUS KIRK, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

#### EXPRESS MAIL NO. ER054264310US

01-12-2001

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Change of Name

Additional numbers attack

ZIP: 75038

#### PATENT

Docket No. 99-426CON1

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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_ <b>VIII</b>	I Or A.	

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settings ⇒ ⇒ ▼		
To the Honorable Commissioner of Pate.		
1. Name of conveying party(ies):		
Huaichuan Hubert Jin		
Richard Schwartz		
Frederick G. Walls		
Additional name(s) of conveying party(ies) attached?		
3. Nature of conveyance:		
Assignment		

Execution Date: 11/10/00, 12/6/00, 11/6/00, 11/30/00

If this document is being filed together with a new application.

5. Name and address of party to whom correspondence

Leonard Charles Suchyta

State: TX

4. Application number(s) or patent number(s):

concerning document should be mailed:

Internal Address: Verizon Services Group

Street Address: 600 Hidden Ridge, HQE03G13

Security Agreement

A. Patent Application No.(s)

Other

09/654,365

FORM PTO-1595

OMB No 0651-00:1 (exp. 4/94)

<u>04</u>	attached original documents or copy thereof
2. Name and	address of receiving party(ies):
Name:	BBNT SOLUTIONS LLC
Internal Ad	dress:

Internal Address:			
Street Address: 10 Moulton Street			
City: Cambridge State: MA ZIP: 02138			
Additional name(s) & address(es) attached?			
the execution date of the application is:  B. Patent No.(s)  The diagram of the application is:  B. Patent No.(s)			
6. Total number of applications and patents involved:			
7. Total fee (37 CFR 3.41)			
Enclosed			
Authorized to be charged to deposit account			
8. Deposit account number:			

\_\_\_\_ 07-2339

(Attach duplicate copy of this page if paying by deposit account)

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9. Statemen	it and	signa	ture
-------------	--------	-------	------

City: Irving

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James K. Weixel, Reg. No. 44,399
Name of Person Signing

James K Wein Signature 12/18/2000 Date

Total number of pages including cover sheet, attachments, and document:

FORM PTO-1595 RECO	RDATION FORM COVE	ER SHEET U.S.	DEPARTMENT OF COMMERCE
(Rev. 6-93)	PATENTS OF		Patent and Trademark Office
OMB No. 0651-0011 (exp. 4/94)		\ \	ratent and trauentark Office
·			
1. Name of conveying party(ies):		IPE	
Sreenivasa P. Sista		اير	
Oleomyasa 1 . Olsta	/ ner	2 1 2000	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>3</b>	
	Car.	D. WARKET	
	PERE PERE	HADEM	
Additional name(s) of con	veying party(ies) attached	? Yes 🗀	No X
2. Name and address of receiving party(i	ies):		
	/-		
Name:			
Internal Address:	<del></del>		
Street Address:	4.4		
City: S	tate: ZIP:		<del>-</del>
Name:			·
ARCHAI ANGICSS.			<u> </u>
Street Address:			
City: S	tate: ZIP:		<u> </u>
Additional name(s) & addres	ss(es) attached?	Yes No X	
4. Application number(s) or patent num	ber(s):		
If this document is being filed together	with a new application, th	e execution date of the	application is:
A. Patent Application	on No.(s)	B. Patent N	Io.(s)
		•	
			1944
			•
			1
Additional num	bers attached?	Yes No X	J

PATENT
Docket No. 99 426 PNV ENTORS)
99-426

#### ASSIGNMENT

For good and valuable consideration which we hereby acknowledge,

we,

Huaichuan Hubert Jin Richard Schwartz Frederick G. Walls Sreenivasa P. Sista

residing (respectively) at

212 Jacob's Creek Dr., Hershey, PA 17033200 Peakham Road, Sudbury, MA 0177622700 Lake Forest Dr., Apt. 337, Lake Forest, CA 9263064 Byron Road, Apt. 14, Chestnut Hill, MA 02467

sell and assign to BBNT SOLUTIONS LLC, a Delaware corporation, its successors and assigns (hereinafter "Company"), all right, title and interest in our invention in

## METHOD AND APPARATUS FOR SCORE NORMALIZATION FOR INFORMATION RETRIEVAL APPLICATIONS

	Inventor	Date 11/10/2000
	Address Huaichuan Hubert Jin 212 Jacob's Creek Dr., Hershey, PA 17033	
Witness	Allo	Date 11/10/2000
Address	120 Jacob's creek Dr., Hershey, PA	17033
Witness	Xiangwen XIe	Date 11/10/2000
Address	212 Jacobs creek Dr. Hershey,	017-17033
	Inventor	Date
	Richard Schwartz 200 Peakham Road, Sudbury, MA 001776	<del></del>
33774		
Witness		Date
Address		Date
		Date

#### EXPRESS MAIL NO. ER054264310US

# 

	Inventor			Date
	Address	Frederick G. Walls 22700 Lake Forest Dr., Apt. 337, Lake For	rest, CA 92630	
Witness			Date	
Address				
Witness		*	Date	
Address				
	Inventor_		_	Date
	Address	Sreenivasa P. Sista 64 Byron Road, Apt. 14, Chestnut Hill, M	A 02467	
Witness			Date	
Address				
Witness			Date	
Address	<del></del>			

PATENT
Docket No. 99-426CON1
(JOINT INVENTORS)

#### **ASSIGNMENT**

For good and valuable consideration which we hereby acknowledge,

we, Huaichuan Hubert Jin Richard Schwartz Frederick G. Walls Sreeniyasa P. Sista

residing (respectively) at

212 Jacob's Creek Dr., Hershey, PA 17033200 Peakham Road, Sudbury, MA 0177622700 Lake Forest Dr., Apt. 337, Lake Forest, CA 9263014 Byron Road, Apt. 4, Chestnut Hill, MA 02467

sell and assign to **BBNT SOLUTIONS LLC**, a Delaware corporation, its successors and assigns (hereinafter "Company"), all right, title and interest in our invention in

### METHOD AND APPARATUS FOR SCORE NORMALIZATION FOR INFORMATION RETRIEVAL APPLICATIONS

	Inventor		Date	
	Address	Huaichuan Hubert Jin 212 Jacob's Creek Dr., Hershey, PA 17033		
Witness			Date	
Address				
Witness			Date	
Address				
	Inventor Address	Richard M. Schwartz Richard Schwartz 1691 Yale Place, Rockville, MD 20850	Date -	Dec 6, 2000
Witness	Ch	risty Anders	Date	Dec. 6, 2000
Address	8601 EUL19	risty Anders  G FALLS RUN RD  COTT CITY, MD 21043		,
Witness	mu	hud a so	Date	12/6/2000
Address	873.	o Cardigal Parest Circle		

## Docket No. 99-426CON1 Attorney's Docket No. 99-426

	Inventor			Date
	Address	Frederick G. Walls 22700 Lake Forest Dr., Apt. 337, Lake Fores	et, CA 92630	
Witness			Date	
Address				
Witness			Date	
Address				
	Inventor	Sreenivasa P. Sista		Date
	Address	14 Byron Road, Apt. 4, Chestnut Hill, M	IA 02467	
Witness			Date	
Address				
Witness			Date	
Address				

PATENT
Docket No. 99(4266GQN/LENTORS)
... 99-426

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	Inventor		Date
	Address	Huaichuan Hubert Jin 212 Jacob's Creek Dr., Hershey, PA 17033	
Witness			Date
Address			
Witness		·	Date
Address			
	Inventor		Date
	Address	Richard Schwartz 200 Peakham Road, Sudbury, MA 001776	
Witness			Date
Address			
Witness			Date
Address			

Attorney's Docket No. 99-426CON1

	Inventor	Frederick D. Walls		Date	11/6/00
	Address	Frederick G. Walls 22700 Lake Forest Dr., Apt. 337, Lake For	est, CA 9263	0	
Witness	_	G Rosings, Mission Vie	Date _	11-6-	00
Address	XXXX	G Rosings, Mission Vie	jo, CA	92692	
Witness	1/	IKE IKIZYAN	Date _	November	-6,2000
Address	433 \$	ANTA MARIA DR., IRVINE,	CA 9260	6	
	Inventor_		_	Date	
	Address	Sreenivasa P. Sista 64 Byron Road, Apt. 14, Chestnut Hill, M.	A 02467		
	,144.055	04 Byton Road, 71pt. 14, Chestnat Pint, 197.	1102107		
Witness			Date _		
Address					
Witness			Date _		
Address					

PATENT
Docket No. 99-426CON1
(JOINT INVENTORS)
. 99-426

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## METHOD AND APPARATUS FOR SCORE NORMALIZATION FOR INFORMATION RETRIEVAL APPLICATIONS

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Address			<u>.</u>
	Inventor		Date
	Address	Richard Schwartz 200 Peakham Road, Sudbury, MA 001776	-
Witness			Date
Address			
Witness			Date
Address			

### Attorney's Docket No. 99-426CON1

	Inventor		Date
	Address	Frederick G. Walls 22700 Lake Forest Dr., Apt. 337, Lake Forest, CA 92630	<del></del>
Witness		Date	
Address			
Witness		Date	
Address			
	Inventor	Sanad	Date 11/30/2000
	Address	Sreenivasa P. Sista  14 Byron Road, Apt. 4, Chestnut Hill, MA 02467	
Witness	4	ROBERT Date	30/2000
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Witness		Jinki Xu)Date 11/	30/2000
Address	780	St Steams Mill RD Waltham,	MA0291-1